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☐ 1. Document ID: US 20030096310 A1

L10: Entry 1 of 24 File: PGPB May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096310
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030096310 A1

TITLE: Microfluidic free interface diffusion techniques

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hansen, Carl L.	Pasadena	CA	US	
Quake, Stephen R.	San Marino	CA	US	
Berger, James M.	Kensington	CA	US	

US-CL-CURRENT: 435/7.1; 137/833, 436/174, 436/536

ABSTRACT:

A static fluid and a second fluid are placed into contact along a microfluidic free interface and allowed to mix by diffusion without convective flow across the interface. In accordance with one embodiment of the present invention, the fluids are static and initially positioned on either side of a closed valve structure in a microfluidic channel having a width that is tightly constrained in at least one dimension. The valve is then opened, and no-slip layers at the sides of the microfluidic channel suppress convective mixing between the two fluids along the resulting interface. Applications for microfluidic free interfaces in accordance with embodiments of the present invention include, but are not limited to, protein crystallization studies, protein solubility studies, determination of properties of fluidics systems, and a variety of biological assays such as diffusive immunoassays, substrate turnover assays, and competitive binding assays.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw Desc | Image

☐ 2. Document ID: US 20030082795 A1

L10: Entry 2 of 24 File: PGPB May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030082795
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030082795 A1

TITLE: Devices and methods for pharmacokinetic-based cell culture system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shuler, Michael	Ithaca	NY	US	
Baxter, Gregory T.	Salinas	CA	US	
Sin, Aaron	Ithaca	NY	US	
Harrison, Robert Andrew	Toronto	PA	CA	
Meyers, Scott	Norristown		US	

US-CL-CURRENT: 435/286.1; 435/288.5, 435/32, 700/266

ABSTRACT:

Devices, in vitro cell cultures, systems, and methods are provided for microscale cell culture analogous (CCA) device.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 3. Document ID: US 20030061687 A1

L10: Entry 3 of 24 File: PGPB Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030061687
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030061687 A1

TITLE: High throughput screening of crystallization materials

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hansen, Carl L.	Pasadena	CA	US	
Quake, Stephen R.	San Marino	CA	US	
Berger, James M.	Kensington	CA	US	

US-CL-CURRENT: 23/295R; 422/245.1

ABSTRACT:

High throughput screening of crystallization of a target material is accomplished by simultaneously introducing a solution of the target material into a plurality of chambers of a microfabricated fluidic device. The microfabricated fluidic device is then manipulated to vary the solution condition in the chambers, thereby simultaneously providing a large number of crystallization environments. Control over changed solution conditions may result from a variety of techniques, including but not limited to metering volumes of crystallizing agent into the chamber by volume exclusion, by entrapment of volumes of crystallizing agent determined by the dimensions of the microfabricated structure, or by cross-channel injection of sample and crystallizing agent into an array of junctions defined by intersecting orthogonal flow channels.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 4. Document ID: US 20030044355 A1

L10: Entry 4 of 24 File: PGPB Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044355
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044355 A1

TITLE: Harmonic ultrasound imaging with microbubbles

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schutt, Ernest G.	San Diego	CA	US	

US-CL-CURRENT: 424/9.52

ABSTRACT:

A method for ultrasonic harmonic imaging is disclosed, which uses microbubbles particularly selected for their properties of reradiating ultrasound energy at frequencies other than the exciting frequency.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 5. Document ID: US 20030008375 A1

L10: Entry 5 of 24 File: PGPB Jan 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030008375
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030008375 A1

TITLE: Methods for treating patients with adenoviral vectors

PUBLICATION-DATE: January 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhang, Shuyuan	Sugar Land	TX	US	
Thwin, Capucine	Spring	TX	US	
Wu, Zheng	Sugar Land	TX	US	
Cho, Toohyon	Houston	TX	US	

US-CL-CURRENT: 435/235.1; 435/239, 435/456

ABSTRACT:

The present invention addresses the need to improve the yields of viral vectors when grown in cell culture systems. In particular, it has been demonstrated that for adenovirus, the use of low-medium perfusion rates in an attached cell culture system provides for improved yields. In other embodiments, the inventors have shown that there is improved Ad-p53 production witrh cells grown in serum-free conditions, and in particular in serum-free suspension culture. Also important to the increase of yields is the use of detergent lysis. Combination of these aspects of the invention permits purification of virus by a single chromatography step that results in purified virus of the same quality as preparations from double CsCl banding using an ultracentrifuge.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 6. Document ID: US 20020182723 A1

L10: Entry 6 of 24 File: PGPB Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182723
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020182723 A1

TITLE: AN IMPROVED METHOD FOR THE PRODUCTION AND PURIFICATION OF ADENOVIRAL VECTORS

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhang, Shuyuan	Sugar Land	TX	US	
Thwin, Capucine	Spring	TX	US	
Wu, Zheng	Sugar Land	TX	US	
Cho, Toohyon	Missouri City	TX	US	
Gallagher, Shawn			US	

US-CL-CURRENT: 435/320.1; 424/233.1, 435/235.1, 435/239, 536/23.72, 536/24.1

ABSTRACT:

The present invention addresses the need to improve the yields of viral vectors when grown in cell culture systems. In particular, it has been demonstrated that for adenovirus, the use of low-medium perfusion rates in an attached cell culture system provides for improved yields. In other embodiments, the inventors have shown that there is improved Ad-p53 production witrh cells grown in serum-free conditions, and in particular in serum-free suspension culture. Also important to the increase of yields is the use of detergent lysis. Combination of these aspects of the invention permits purification of virus by a single chromatography step that results in purified virus of the same quality as preparations from double CsCl banding using an ultracentrifuge.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 7. Document ID: US 20020177215 A1

L10: Entry 7 of 24 File: PGPB Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177215
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020177215 A1

TITLE: Methods for producing purified adenoviral vectors

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zhang, Shuyuan	Sugarland	TX	US	
Thwin, Capucine	Spring	TX	US	
Wu, Zheng	Sugarland	TX	US	
Cho, Toohyon	Houston	TX	US	

US-CL-CURRENT: 435/235.1; 435/239, 435/456

ABSTRACT:

The present invention addresses the need to improve the yields of viral vectors when grown in cell culture systems. In particular, it has been demonstrated that for adenovirus, the use of low-medium perfusion rates in an attached cell culture system provides for improved yields. In other embodiments, the inventors have shown that there

is improved Ad-p53 production with cells grown in serum-free conditions, and in particular in serum-free suspension culture. Also important to the increase of yields is the use of detergent lysis. Combination of these aspects of the invention permits purification of virus by a single chromatography step that results in purified virus of the same quality as preparations from double CsCl banding using an ultracentrifuge.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 8. Document ID: US 20020133886 A1

L10: Entry 8 of 24 File: PGPB Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020133886
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020133886 A1

TITLE: Washing apparatus

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Severns, John Cort	West Chester	OH	US	
Hartman, Frederick Anthony	Cincinnati	OH	US	
Laurent, James Charles Theophile Roger Burckett-St.	Hamilton	OH	US	
Noyes, Anna Vadimovna	Hamilton	OH	US	
Radomyselski, Arseni V.	West Chester	OH	US	
France, Paul Amaat	Loveland	OH	US	
Scheibel, Jeffrey John	West Chester	OH	US	
Thoen, Christiaan Arthur Jacques Kamiel	West Chester	OH	US	
Deak, John Christopher	Fairfield	OH	US	
Vinson, Phillip Kyle	Cincinnati	OH	US	
Sakkab, Nabil Yaqub			US	

US-CL-CURRENT: 8/142

ABSTRACT:

The present invention relates to an apparatus for treating, refreshing or cleaning fabric articles, especially articles of clothing, linen and drapery.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 9. Document ID: US 20020065467 A1

L10: Entry 9 of 24 File: PGPB May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020065467
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020065467 A1

TITLE: Methods and apparatus for monitoring and quantifying the movement of fluid

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schutt, Ernest G.	San Diego	CA	US	

US-CL-CURRENT: 600/454; 600/458

ABSTRACT:

Methods, systems and devices are provided for monitoring and quantifying the movement of fluid in a target region. Generally, an imaging agent is introduced into a target region through fluid flow. The imaging agent in the target region is then disrupted using appropriate methods such as the application of ultrasonic energy. As fluid flow brings undisrupted imaging agent into the target region, the rate of accumulation is monitored and quantified thereby providing the exchange rate and flow rate of the fluid in the target region. The disclosed invention is particularly useful for medical applications such as determining the flow rate of blood in an organ or tissue.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 10. Document ID: US 6194191 B1

L10: Entry 10 of 24 File: USPT Feb 27, 2001

US-PAT-NO: 6194191
DOCUMENT-IDENTIFIER: US 6194191 B1
**** See image for Certificate of Correction ****

TITLE: Method for the production and purification of adenoviral vectors

DATE-ISSUED: February 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhang; Shuyuan	Sugar Land	TX		
Thwin; Capucine	Spring	TX		
Wu; Zheng	Sugar Land	TX		
Cho; Toohyon	Houston	TX		

US-CL-CURRENT: 435/239; 424/199.1, 435/235.1, 435/320.1

ABSTRACT:

The present invention addresses the need to improve the yields of viral vectors when grown in cell culture systems. In particular, it has been demonstrated that for adenovirus, the use of low-medium perfusion rates in an attached cell culture system provides for improved yields. In other embodiments, the inventors have shown that there is improved Ad-p53 production witrh cells grown in serum-free conditions, and in particular in serum-free suspension culture. Also important to the increase of yields is the use of detergent lysis. Combination of these aspects of the invention permits purification of virus by a single chromatography step that results in purified virus of the same quality as preparations from double CsCl banding using an ultracentrifuge.

89 Claims, 44 Drawing figures
Exemplary Claim Number: 1,61,71,78,86
Number of Drawing Sheets: 44

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L9	L8 and (tow fluids)	0	L9
L8	L7 and (passing or lifting)	564	L8
L7	L6 and solubility	1558	L7
L6	L5 and affinity	5087	L6
L5	L4 and (object or article or substrate)	23180	L5
L4	L3 and densities	27773	L4
L3	L2 and fluids	67316	L3
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L9	L8 and (tow fluids)	0	L9
L8	L7 and (passing or lifting)	564	L8
L7	L6 and solubility	1558	L7
L6	L5 and affinity	5087	L6
L5	L4 and (object or article or substrate)	23180	L5
L4	L3 and densities	27773	L4
L3	L2 and fluids	67316	L3
L2	L1 and interface	291461	L2
L1	remov$ or decontaminat$	3354062	L1

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